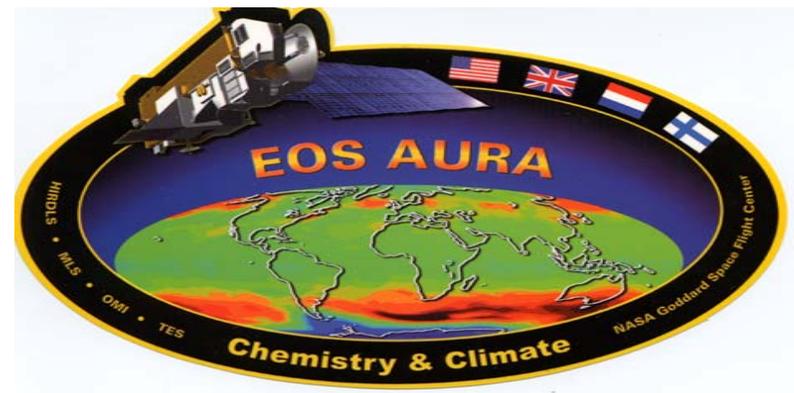
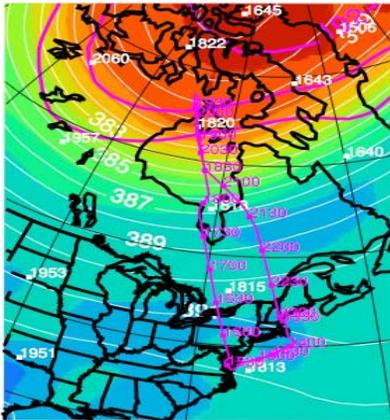


Ozone observations during the Polar Aura Validation Experiment (PAVE) in January-February, 2005

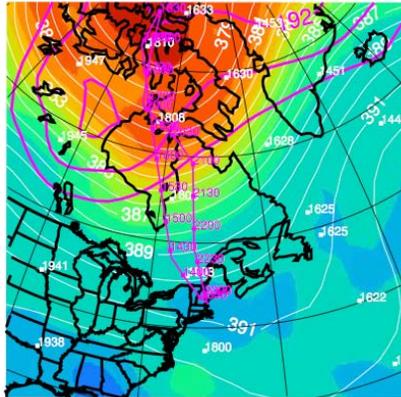
Michael T. Coffey and James W. Hannigan
National Center for Atmospheric Research



18 UTC on 29 January

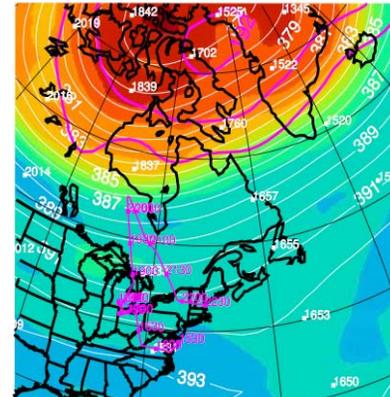


18 UTC on 31 January, 2005 at 45

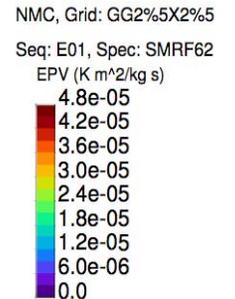


MNST (x 1.00E+03 J/kg^-1) 192, 196, 200 (K)

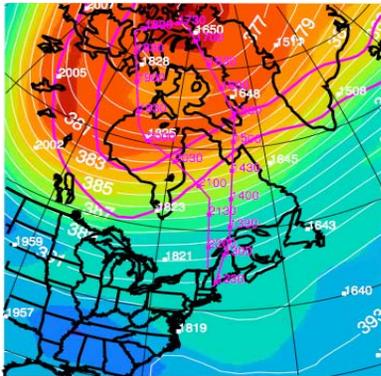
18 UTC on 3 February, 2005 at 450.0 K



MNST (x 1.00E+03 J/kg^-1) 192, 196, 200 (K)

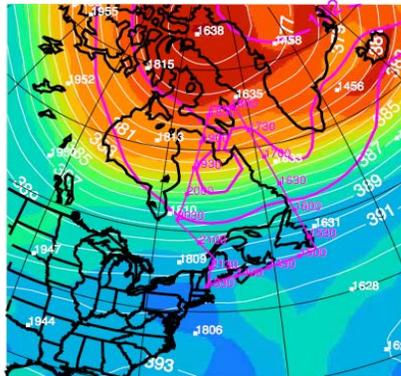


18 UTC on 5 February, 2005

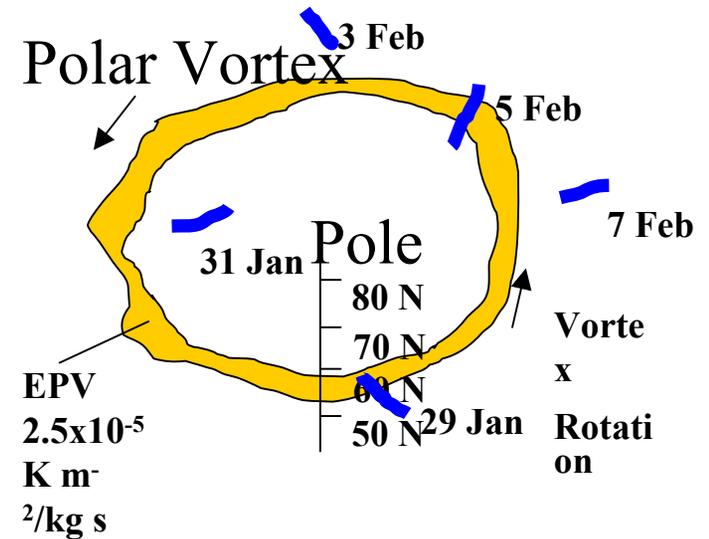


MNST (x 1.00E+03 J/kg^-1) 192, 196

18 UTC on 7 February, 2005 at 450

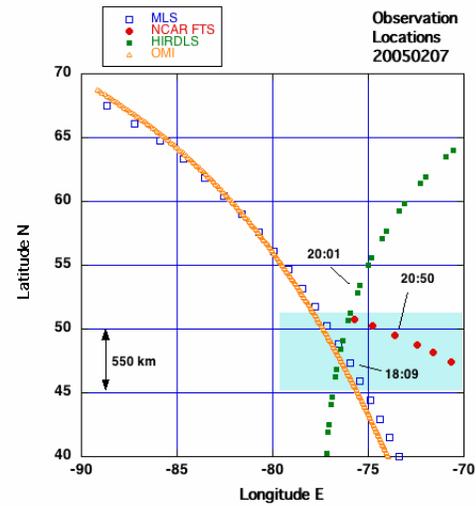
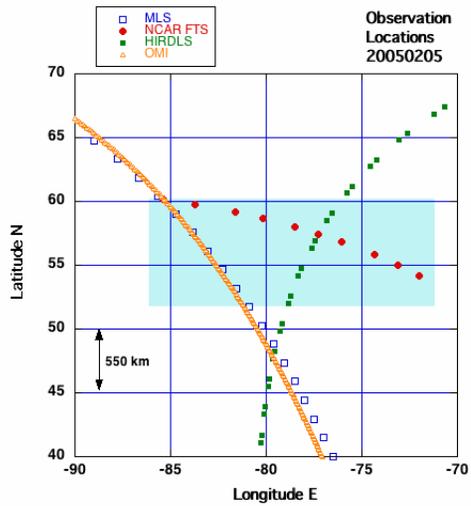
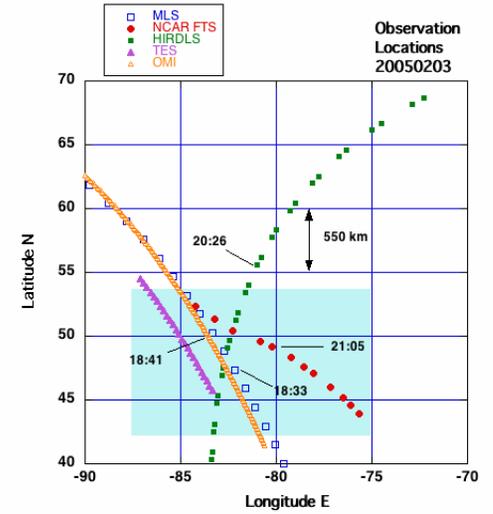
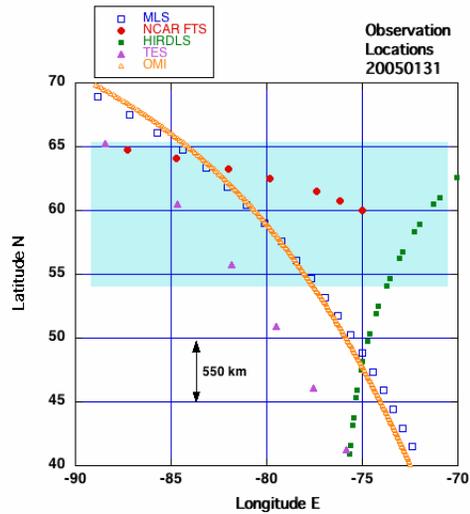
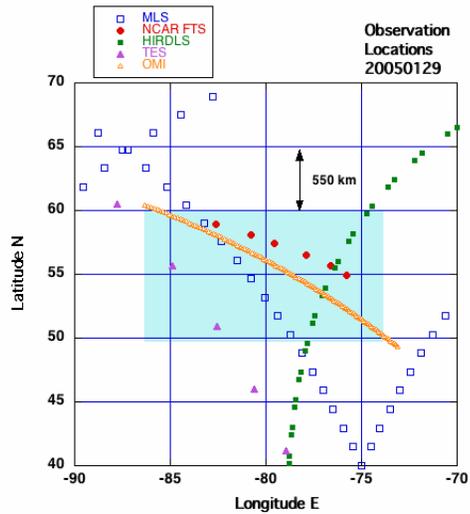


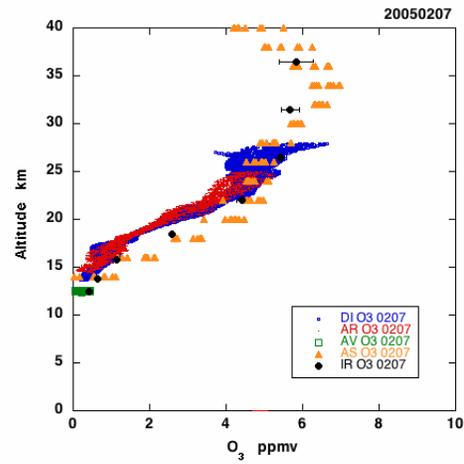
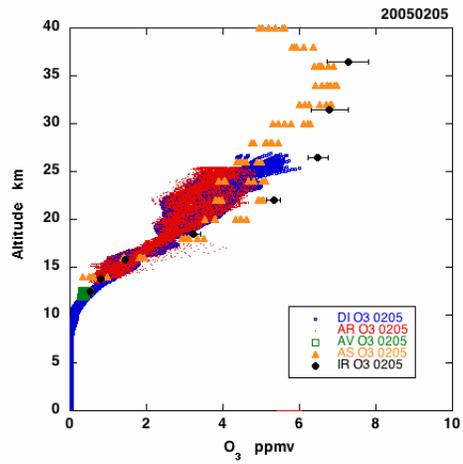
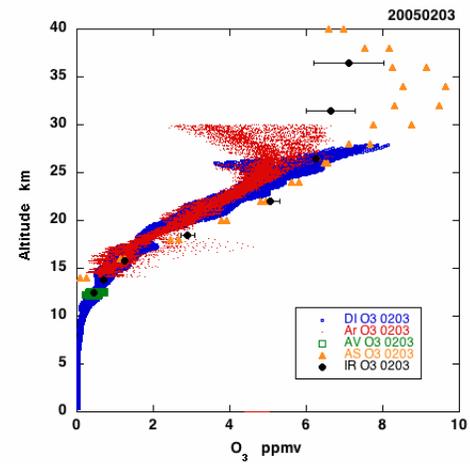
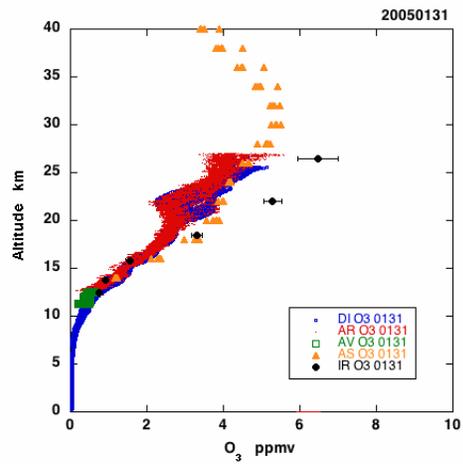
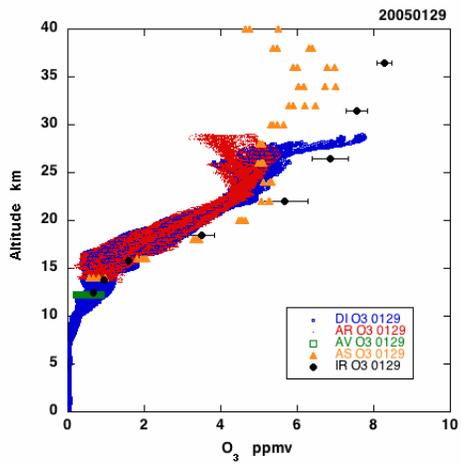
MNST (x 1.00E+03 J/kg^-1) 192, 196, 200 (K)

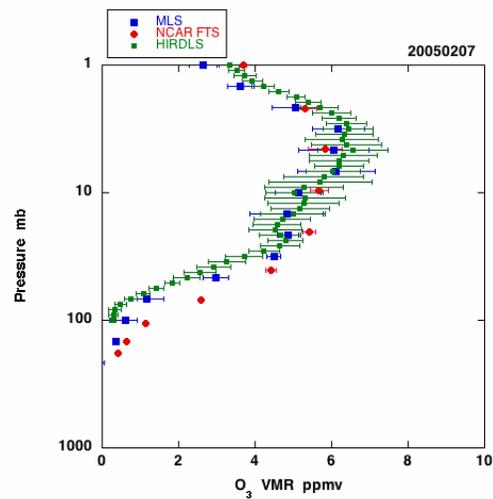
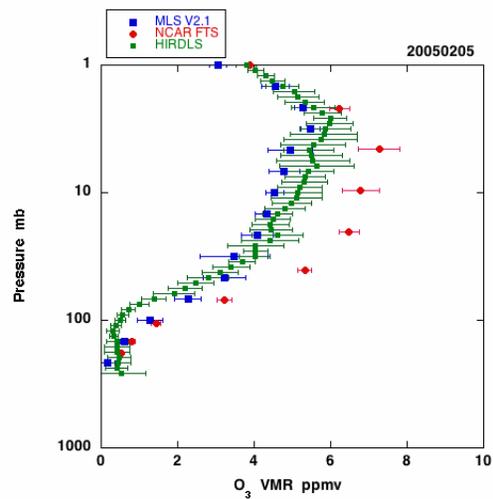
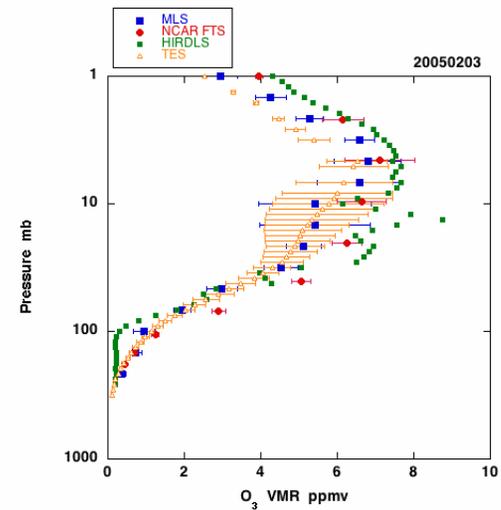
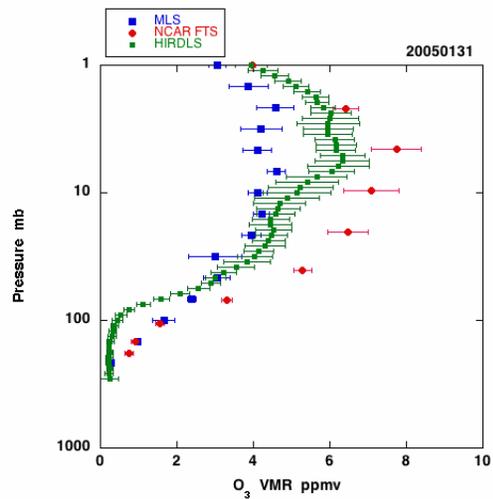
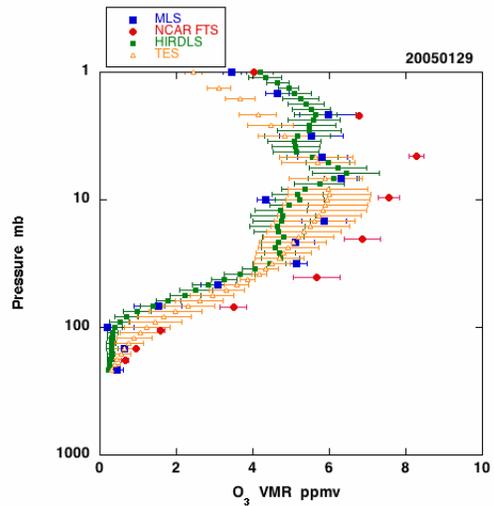


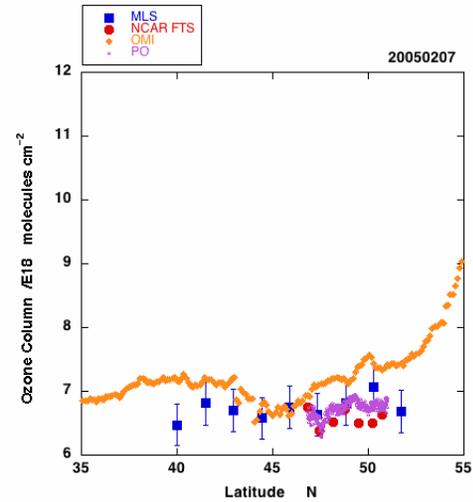
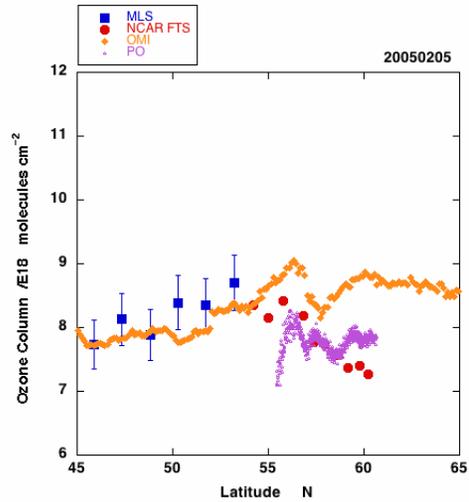
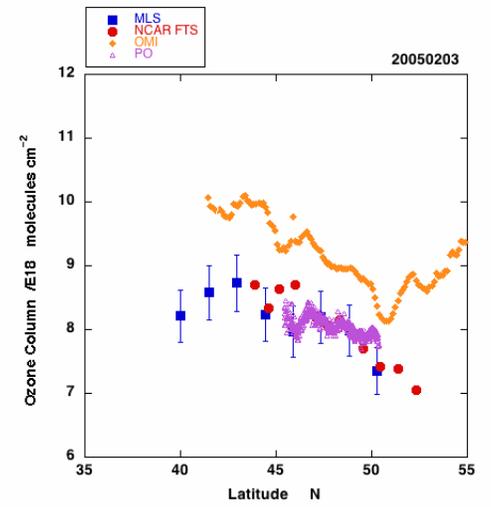
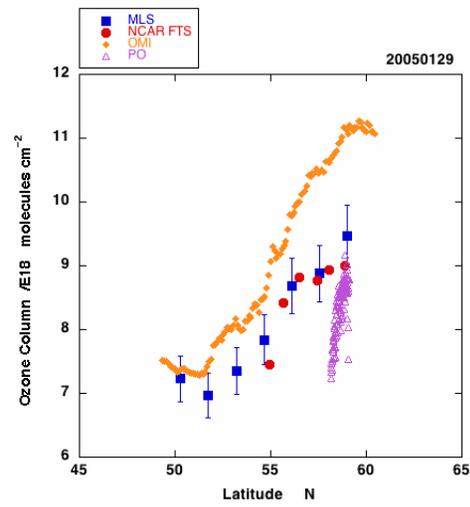
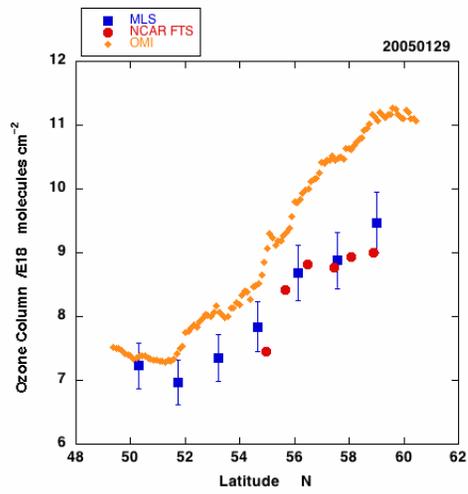
Ozone Observations aboard the DC-8

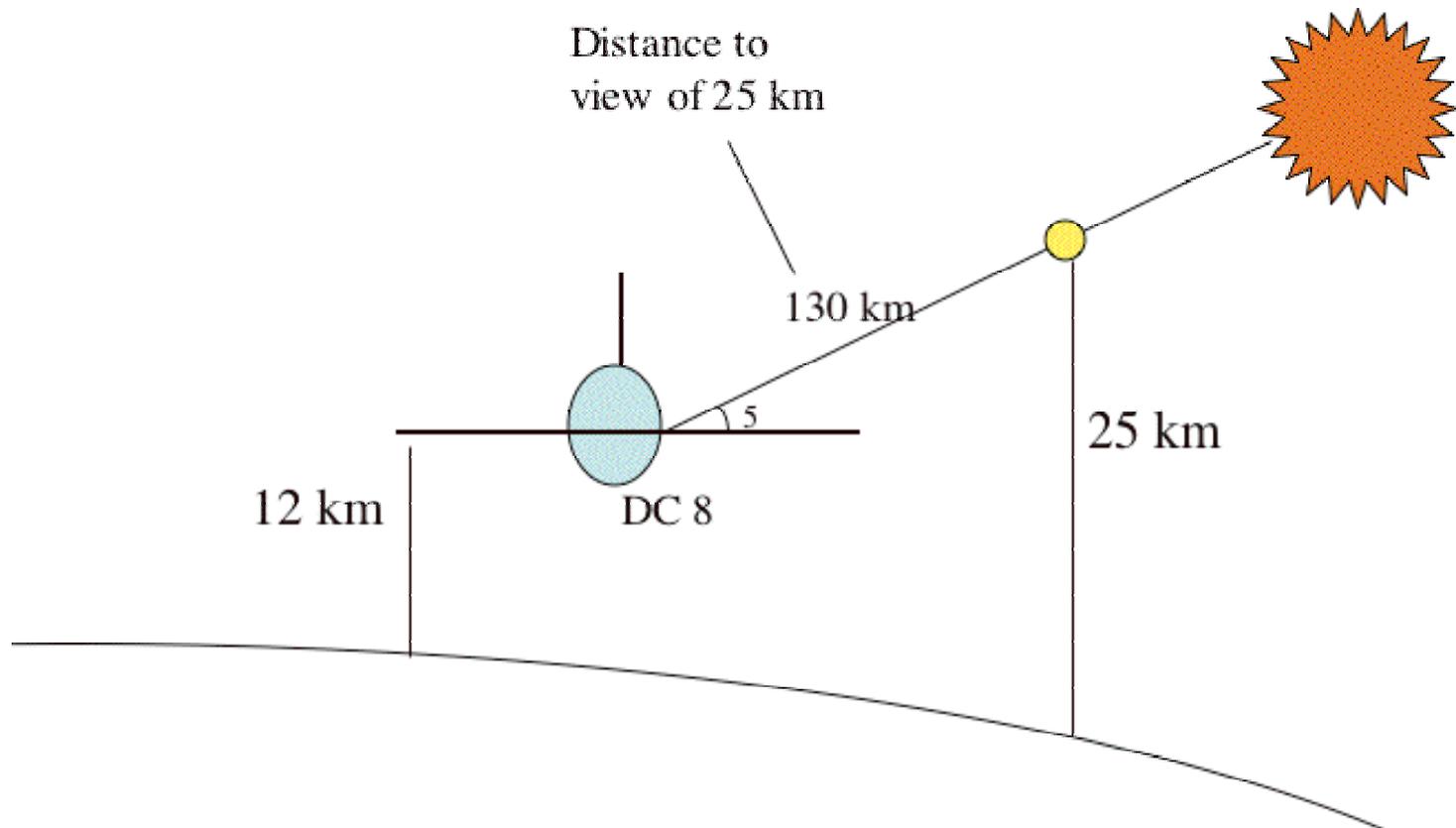
Observation	Institution	PI	ID
Insitu O ₃	NASA LaRC	Avery	O3
LIDAR	NASA LaRC	Browell	DI
IR abs FTS	NCAR	Coffey	IR
LIDAR	NASA GSFC	McGee	AR
Sub-mm emiss spect.	U. of Bremen	Notholt	AS
Actinic flux spect.	CU/NCAR	Petropavlovskikh	PO





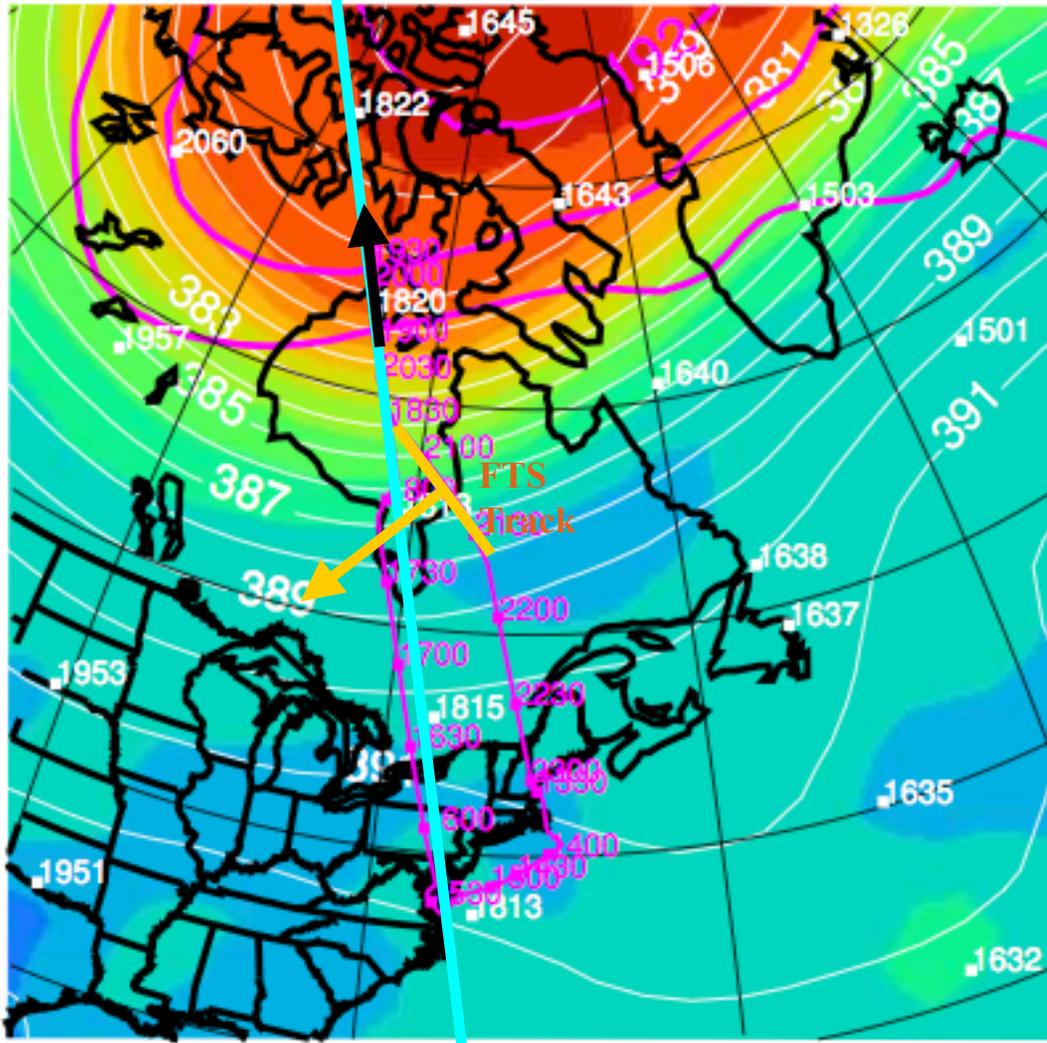






**130 km is about 1.2 degrees of latitude,
View is generally southward from aircraft**

18 UTC on 29 January, 2005



MLS track and view direction

FTS track and view direction

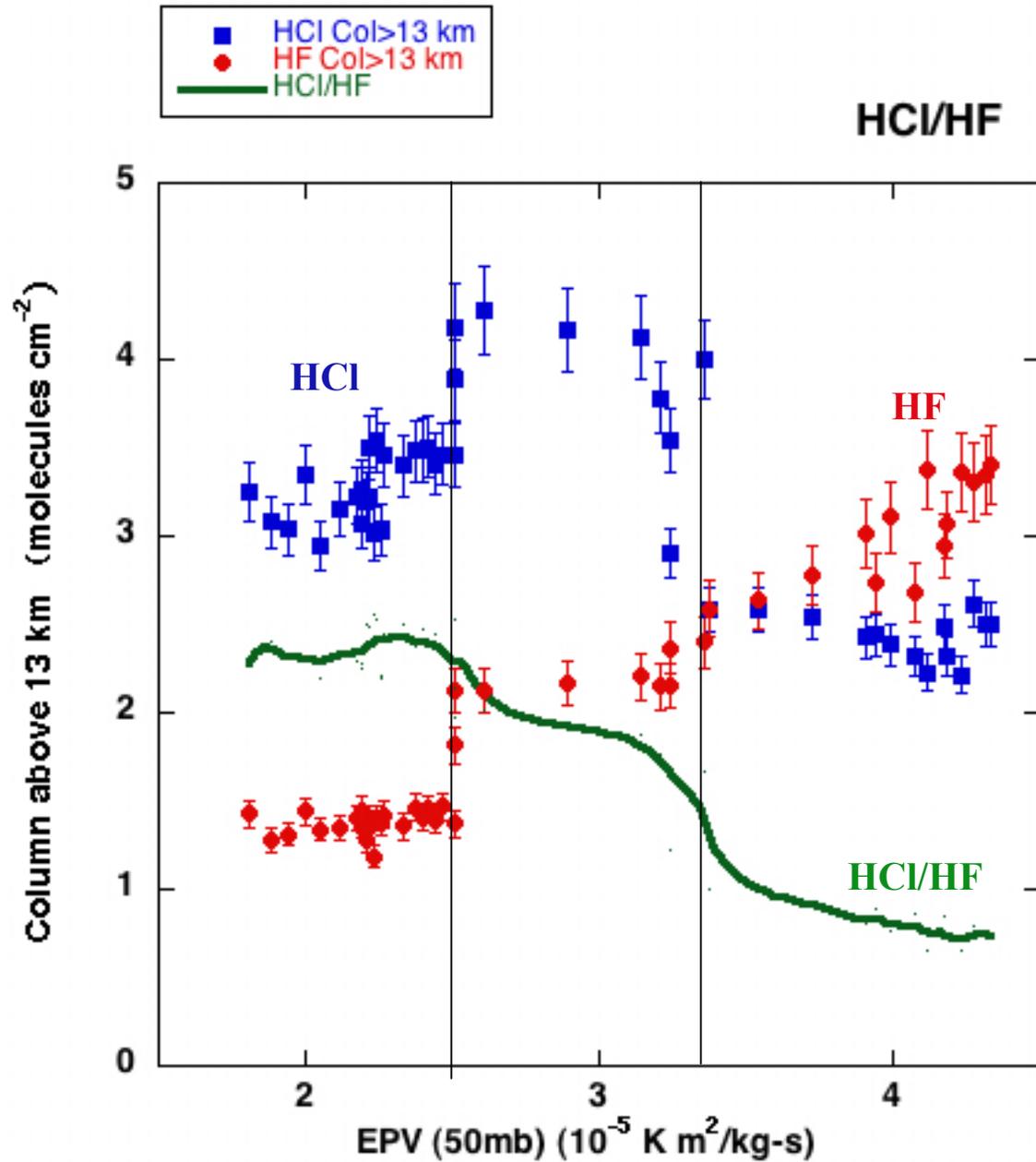
MNST (x 1.00E+03 J/kg⁻¹)

MLS Track

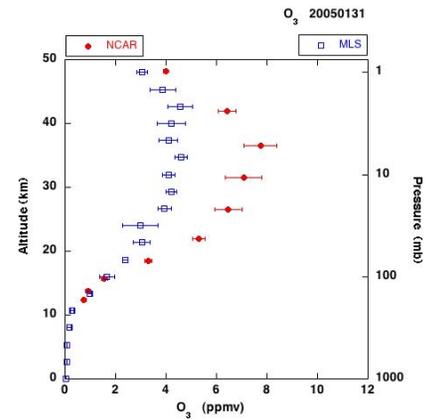
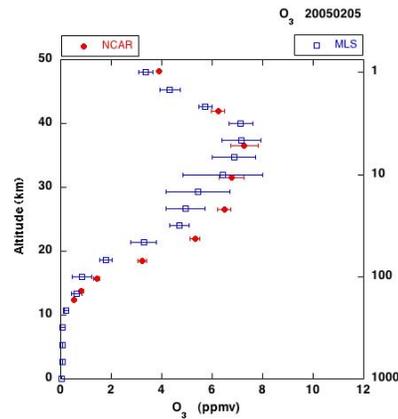
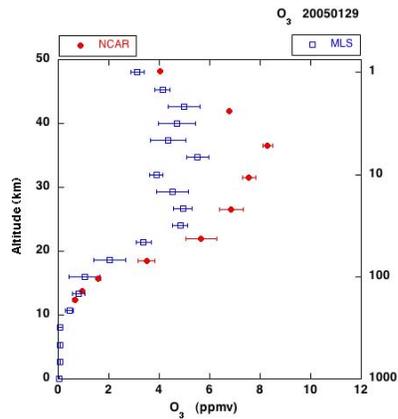
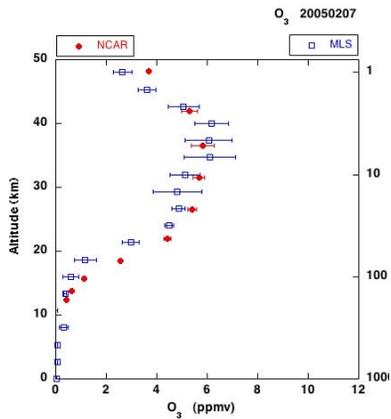
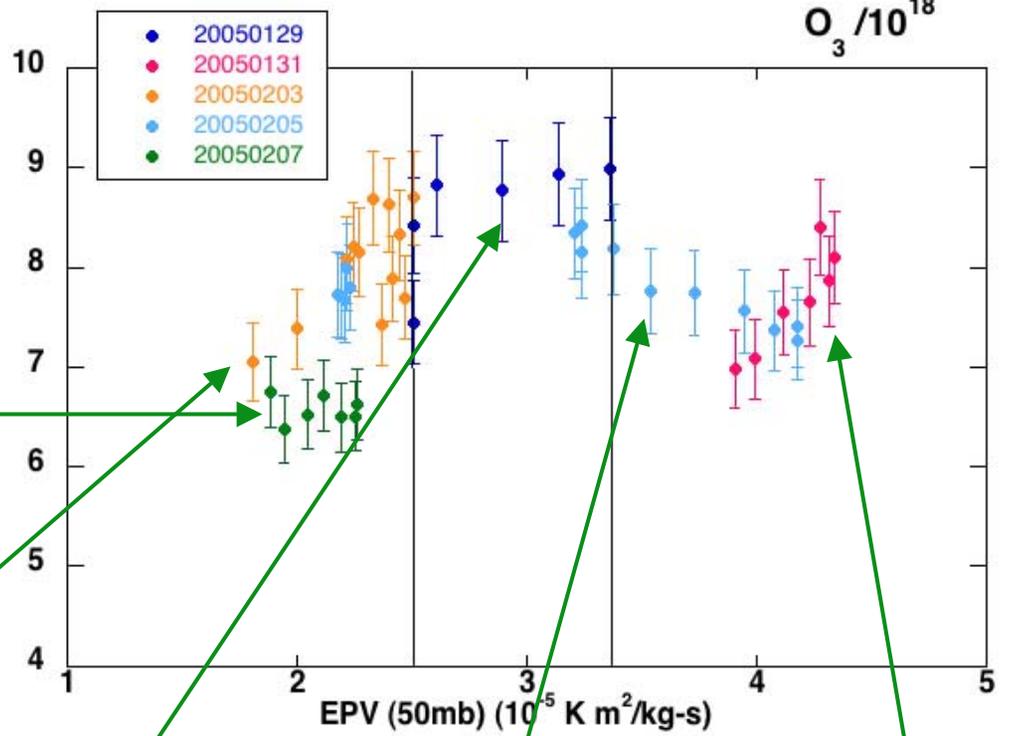
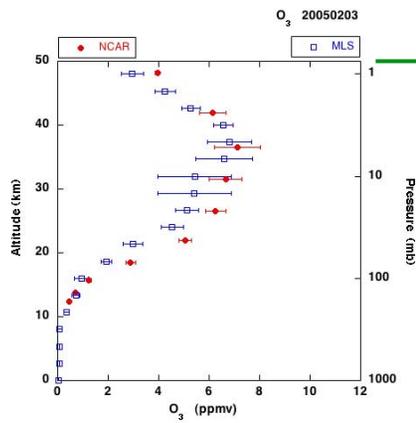
192, 196, 200 (K)



QuickTime™ and a
TIFF (Uncompressed) decompressor
are needed to see this picture.



EPV (50mb) from GSFC XSxxxx data files



Gases to be Measured by Aura

HIRDLS	\underline{O}_3 H ₂ O CH ₄ N ₂ O HNO ₃ N ₂ O ₅ CCl ₃ F CF ₂ Cl ₂ ClONO ₂
MLS	$\underline{H}_2\underline{O}$ \underline{O}_3 \underline{ClO} BrO \underline{HCl} \underline{OH} \underline{HO}_2 \underline{HNO}_3 \underline{HCN} $\underline{N}_2\underline{O}$ \underline{CO} \underline{HOCl} CH ₃ CN
OMI	\underline{O}_3 NO ₂ SO ₂ BrO OClO HCHO
TES	\underline{O}_3 NO ₂ \underline{CO} HNO ₃ CH ₄ $\underline{H}_2\underline{O}$ *

Measured by NCAR FTS

Underlined available Sept 2005
 GSFC DAAC or LaRC ASDC